ABSTRACT OF THE DISCLOSURE

Methods, systems, and articles of manufacture consistent with the present invention train a real-time health-monitor for a computer-based system while simultaneously monitoring the health of the system. A plurality of signals that each describe an operating condition of a subject data processing system are monitored in real-time. It is determined whether there is a problem with the subject data processing system by comparing at least one of the monitored signals to a corresponding at least one signal in a known signal dataset. The known signal dataset includes a signal value for at least one signal that describes an operating condition of one of a plurality of subject data processing systems. A new signal dataset having an entry for each monitored signal and a corresponding signal value is prepared simultaneously with monitoring the plurality of signals and determining whether there is a problem.